



Summer 1993

PC Power Tools

DIRECT

Page 2

Page 5

Page 13

Make the right connection.

TCP/IP® Version 2.1 for DOS supports TCP/IP in DOS or Windows™ mode. TCP/IP OS/2® supports OS/2 systems and is integrated for use with the Presentation Manager®. Both products interoperate with Novell® and IBM LAN requestors so that you can use TCP/IP applications at the same time that you are using your local servers.

A full suite of TCP/IP applications is included with the base kits for the DOS/Windows and OS/2 products. Each has an optional kit for NFS (Network File System). In addition, both OS/2 and DOS/Windows have programmer's Toolkits that support the most common application interfaces. X-Windows support is also available.

See page 3 to order.

1 800 IBM-CALL

More Power.

OS/2 2.1

Power and performance on your PC.

IBM's award-winning OS/2 gives you mainframe capability on a micro. Run your favorite software programs simultaneously as though you had dozens of computers side-by-side. OS/2 isolates each product in a virtual mode, protecting one program from another. Each program performs independently, without interruption, even when you switch from one to another.

The OS/2 Workplace Shell™ provides a task-oriented environment, with a drag and drop protocol for object manipulation that will make you more productive in this powerful environment. With OS/2's newest Version 2.1 you will get all the benefits of Version 2.0 plus:

- Enhanced support for industry-standard hardware and software
- Support for legacy applications including Windows 3.1 applications
- The most stable platform for running all your applications and extensions
- Supports over 260 printers.

That's not all! With every shipment of OS/2 2.1 you will receive Multimedia Presentation Manager/2™ (MMPM/2) Version 1.1. MMPM/2 supports Proaudio Spectrum 16™, Soundblaster and IBM M-Audio™.

Other OS/2 2.1 enhancements include CD-ROM support for the most popular SCSI drives.



OS/2's new Version 2.1 provides the most stable platform for all your applications and extensions.

IBM AIX
PS/2 1.3

Get the competitive edge!

Strongly committed to open systems, IBM's newest version of AIX® PS/2™

offers you enhanced application performance, improved memory management and enriched graphics support in a UNIX®-based operating environment for Intel®-based systems. AIX PS/2 Version 1.3 gives you:

- Full POSIX IEEE 1003.1 1988 standard compliance
- Enhanced Windowing and Graphical User Interface through X-Windows V11 R5 and Motif 1.1.3
- Multiple DOS 5.0 sessions
- Mini-cartridge tape for ease of installation
- Full hardware support and exploitation for models of IBM PS/2® systems based on 32-bit IBM and Intel technology using both IBM Micro Channel and IBM AT®-Bus Architecture
- Full ValuePoint Line Support and IBM ThinkPad™ 700 and 700C support
- Network install from a server
- SLIP support and SNMP agent.

CM Mouse
Support

A mouse for your host.

CM Mouse Support makes existing host applications "look and feel" like PC

applications with point-and-shoot and pop up menus — without change to the host programs! With CM Mouse, your mouse buttons can send keystroke sequences or pop up customized selection menus. Screen recognition techniques allow unique "hot spots" on each host screen giving you both power and flexibility. CM Mouse Support provides:

- REXX interface
- Complete transparency to host applications
- Fully functional sample configuration files for OfficeVision™, RMDS and other applications.

Trademarks used in this catalog: IBM, OS/2 OS/400, AS/400, DB2, XGA, SQL/400, SAA, SQL/DS, AIX, PS/2, AT, BookManager, RISC System/6000, Presentation Manager and AD/Cycle are registered trademarks of the International Business Machines Corporation. Multimedia Presentation Manager/2, Think Pad, Office Vision, Person to Person/2, Ultimedia, ES/9000, S/370, Print Services Facility, Storyboard, APL, APL/600, IBM M-Audio, Information Warehouse and Advanced Function Printing are trademarks of International Business Machines. UNIX is a registered trademark of UNIX System Laboratories, Inc. Windows and Word are trademarks of Microsoft Corporation. WordPerfect is a registered trademark of WordPerfect Corporation. Novell, NetWare and NetView are registered trademarks of Novell, Inc. ActionMedia, Quicken, i386 and i486 are trademarks of Intel Corporation. HP is a registered trademark of Hewlett-Packard Company. Adobe is a registered trademark of Adobe Systems, Inc. Macintosh is a registered trademark of the Apple Computer Corporation. Ethernet is a registered trademark of the Xerox Corporation. Oracle is a registered trademark of Oracle Corporation. TCP/IP is a registered trademark of District Corporation. Micro Focus COBOL Workbench is a trademark of Micro Focus, Ltd. EAST! Workbench is a trademark of Easel Corporation. SmallTalk/V is a registered trademark of DIGITAL. Proaudio Spectrum is a trademark of Media Vision, Inc. VIASOFT, VIA/Insight 2, VIA/SmartDOC2, VIA/Renaissance2 and VIA/ReCap2 are trademarks of VIASOFT, Inc.



Put a book in your window.

Easily find and manage your company's increasing amounts of information with the IBM BookManager® family of products — BUILD and READ. With the IBM SAA BookManager BUILD/2, you can convert documents created with WordPerfect® and MicroSoft Word™ into online-readable, electronic books. These books can then be accessed and viewed using either the IBM SAA BookManager READ/2 or BookManager READ/DOS products. These programs organize books into electronic bookshelves allowing you to access information immediately through sophisticated link and search capabilities, within and across books.

Users' books and documents can be built and placed on the electronic bookshelf right next to softcopy books from IBM, and numerous other information providers who utilize the BookManager format.

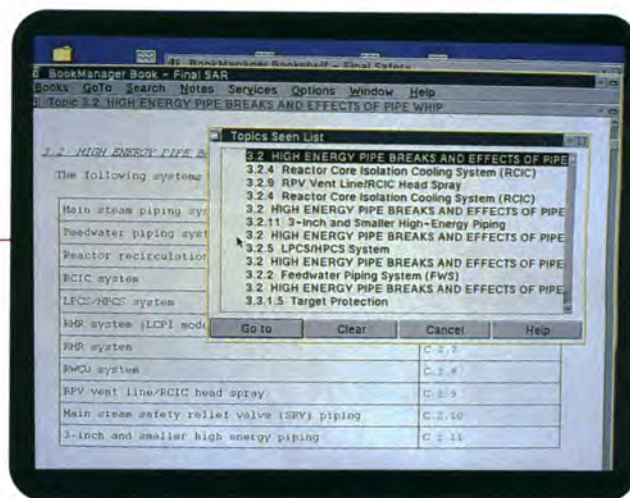
- Get quick access to softcopy documents stored on a LAN server, AS/400® folder, diskette or CD-ROM.
- Able to use softcopy books in many languages.
- Displays image data and graphics within softcopy publications.
- Displays more than one book at a time with OS/2 Presentation Manager multi-tasking.
- BookManager READ/DOS 1.2 allows users to find, read and use information at their DOS workstations.



Advanced printing for your LAN.

Bring the power and sophistication of IBM's Advanced Function Printing™ technology to your LAN with IBM Print Services Facility/2™. PSF/2 gives you seamless distribution of S/370™ and AS/400 host and LAN printing.

PSF/2 functions as a LAN print server, supporting multiple workstations, data streams and printer types — a great solution for your high-function, high-capacity or departmental printer requirements. It also consolidates printing throughout the enterprise by allowing both the host and workstation application data to be printed on a wide range of LAN-attached printers.



With BookManager, users' books and documents can be built and placed on the electronic bookshelf right next to softcopy books.

PSF/2 V1.1:

- Supports print submission from DOS, Windows, OS/2, UNIX, AIX, MVS, VM, VSE and OS/400® applications.
- Supports distributed printing from S/370 and AS/400 platforms.
- Includes LAN printer sharing by host and LAN applications.
- Supports all IBM IPDS Page Printers as well as PPDS, HP® PCL 4 & 5 printer data streams, and PostScript as an input data stream.
- Provides local control of spools, printers and resources.
- Server runs on OS/2.
- Supports Adobe® Type 1 fonts.
- Includes a free starter set of over 800 fonts, plus a Type Transformer program to convert Adobe Type 1 fonts for printers supported by any PSF.

Ordering Information

Program No.	OTC
5871-AAA OS/2 2.1	
F/C 4999 3.5"	\$249
F/C 5001 5.25"	\$249
F/C 5002 CD-ROM	\$219
5873-AAA OS/2 2.1 Upgrade	
F/C 5006 3.5"	\$199*
F/C 5007 5.25"	\$199*
F/C 6183 CD-ROM	\$169*
5765-160 AIX PS/2 1.3	\$714
CM Mouse Support	
5799-PNJ Basic License	\$165
5872-BBB Feature 2254	\$ 81
BookManager Tools	
5601-454 BookManager READ/2 V1.2.1	\$203
5601-453 BookManager READ/DOS 1.2	\$203
5871-BBB*	
F/C 3779 BookManager BUILD/2 V1.2.1	\$895
5871-AAA Print Services Facility, F/C 2563	\$1,495
5871-BBB TCP/IP V2.1 for DOS	
F/C 3958 Base Kit	\$230
F/C 3959 NFS Kit	\$135
F/C 3961 Tool Kit	\$550
F/C 3960 NETBIOS	\$125
5871-BBB TCP/IP V1.2 for OS/2	
F/C 2059 Base Kit	\$200
F/C 2061 NFS Kit	\$150
F/C 2064 Tool Kit	\$500
F/C 2062 X-Windows Kit	\$150
F/C 1716 NETBIOS Kit	\$176

*Call before September 14, 1993 for our Special Introductory Prices.

More Action.

Person to
Person/2

Reduce travel costs!

Work with colleagues across the hall or across the country — without ever leaving your office! This exciting, new product, Person to Person/2™ (P2P), gives you the ability to confer with others on documents, spreadsheets, images and graphics as well as make annotations and send messages — simultaneously on each person's screen!

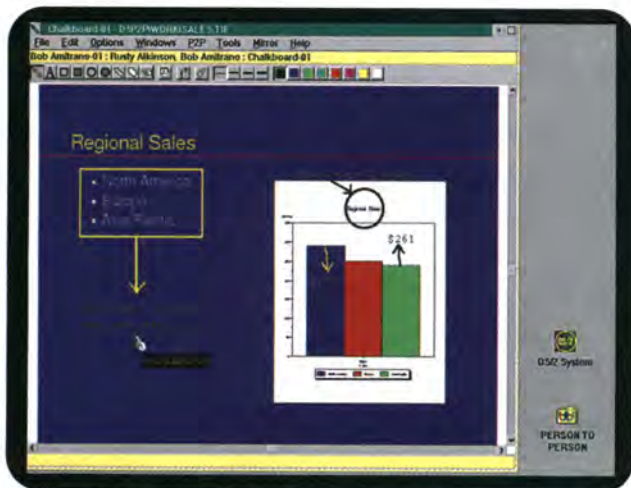
Real time sharing and modification of data can be done right at your desktop giving you the competitive edge by improving the accuracy and speed of decision making.

The flexibility of Person to Person/2 can't be beat. Up to five OS/2 users can interactively communicate via a choice of communication links, including Token-Ring, Ethernet®, TCP/IP, ISDN or asynchronous connections. With optional video equipment you can even see other participants in a video window!

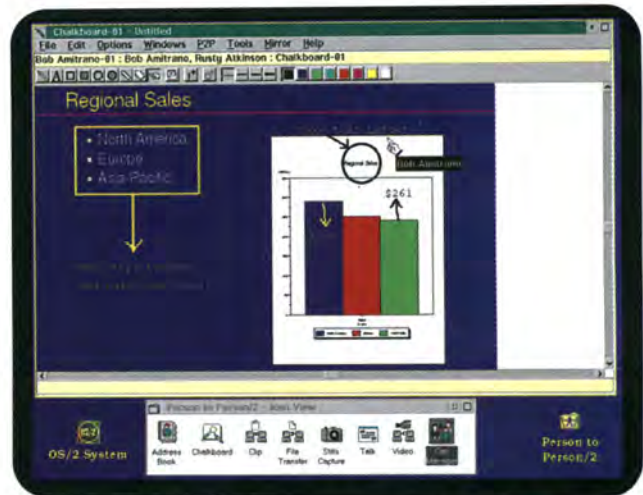
IBM Person to Person/2 Version 1.0 contains a set of utilities. They include:

- Chalkboard with annotation tools
- Talk function
- Address book
- File transfer
- Call management and
- Video as supported by the installed hardware.

Shared Clipboard support is also available to extend the applicability of some facilities for data sharing provided by operating systems and by many applications intended for group working.



Up to five OS/2 users can interactively communicate via a choice of communication links with Person to Person/2.



With Person to Person/2 real time sharing and data modification can be done right at your desktop.

To enhance the imaging capabilities of IBM Person to Person/2 Version 1.0 an additional tool is provided that allows use of the IBM PS/2 ActionMedia™ II video hardware with an XGA® Display Adapter to capture high quality still images.

Version 1.0 which runs on OS/2 2.0 is available now. However look for other versions coming soon, including a Windows and AIX version for the RS/6000® and a System 7 version for the Macintosh®. That's not all! An Application Programming Interface (API) will be available for you, as developer, to code the collaborative and conferencing functions directly into your own applications.

Order direct, 1 800 426-2255.

IBM DDCS/2



Spreading the word.

IBM Distributed Database Connection Services/2 Version 2 (DDCS/2) is a 32-bit product including the same functions provided in DDCS/2 Version 1 with even greater performance.

DDCS/2 lets you develop and run application programs that connect to, access and update host databases from DOS, DOS Windows and OS/2 database client workstations. The same database clients installed to access DB2/2® database servers on a LAN can now also access and update host (DB2, SQL/DS™, OS/400) databases through DDCS/2. To a user or application program, the host database becomes an extension of the database server capability. No DDCS/2 code is needed on the host!

Together, DB2/2 and DDCS/2 can enable more users to access more data, from more sources, than ever before.

IBM DATABASE 2 for OS/2



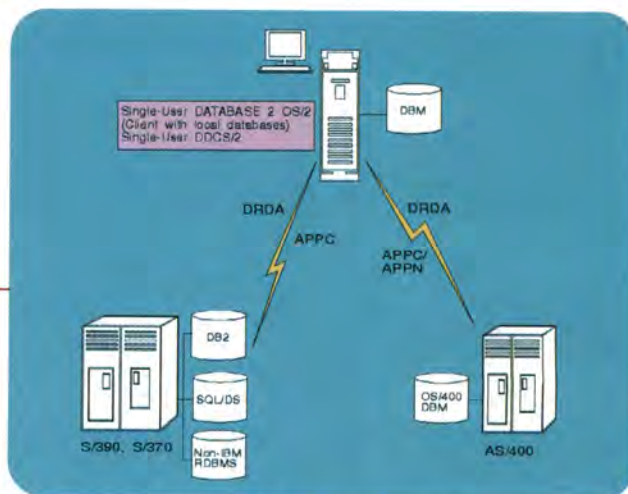
Something for everyone.

The IBM family of high-quality relational database managers provides you with fast, secure and reliable access to your data at an affordable price. IBM Database 2 for OS/2 Version 1 (DB2/2) is the newest member of the IBM relational database family of products, along with DB2 for MVS, SQL/OS for VM and VSE and SQL/400® for OS/400. It extends IBM's relational database technology to the single-user workstation and client/server environment and is a key component of Information Warehouse™. It brings to the OS/2 platform, function and performance that DB2 (for MVS) users have come to expect.

IBM's reputation for service and support lets you rely on a single vendor for outstanding hardware and software problem resolution. The openness built into the DB2 family means your choices are broader and your applications are more portable across various hardware platforms.

The new DB2/2 provides all functions found in OS/2 Extended Services 1.0, plus these new functions:

- Exploitation of the 32-bit operating system
- Increased integrity and scalability
- Remote installation support of DB2/2 using IBM's Configuration, Installation and Distribution (CID) technology



DB2/2 provides fast and reliable access to your data.

- Compatibility with SQL supported by DB2 (for MVS), SAA SQL Level 2 and SQL89 Standard
- Continued support of existing 16-bit and 32-bit OS/2 database applications
- Database Client-Enabling Distributed Feature support for OS/2, DOS, DOS Windows 3.0/3.1 workstations provided with the Client/Server version of DB2/2.

DB2/2 includes Database Services, Remote Data Services, application programming interfaces, database administration tools, an OS/2 command line processor and an end-user application, Query Manager. Together these functions make Database 2 OS/2 an industrial-strength database management system for use in performance-oriented, mission-critical, on-line transaction processing, line-of-business applications and LAN-based EIS decision support processing.

Ordering Information

Program No.		OTC
5871-AAA Person to Person/2 V1.0		
F/C 3853	3.5"	\$ 280
F/C 4475	10-pack	\$1,875
5871-AAA DDCS/2 V2 Single User		
F/C 4869	3.5"	Now \$229 \$300
F/C 4904	5.25"	Now \$229 \$300
5871-AAA DB2/2 V1 Single User		
F/C 4864	3.5"	Now \$199 \$425
F/C 4865	5.25"	Now \$199 \$425

Save 45%!

Order either single-user DB2/2 V1 or DDCS/2 V2 before August 31, 1993.

More Images.

Ultimedia Tools Series



Multimedia so easy, you'll be surprised.

The Ultimedia™ Tools Series presents a wide range of multimedia tools from IBM and the industry's most innovative software vendors. The Series is unified by a broad-based open architecture that ensures that different tools will work together.

Three new, interoperable OS/2 tools — Ultimedia Builder/2, Ultimedia Perfect Image/2 and Ultimedia Workplace/2 — make adding multimedia to your business applications easy and quick. Choose one or all three to fit your needs.

Ultimedia Builder/2 simplifies multimedia creation with an easy-to-use graphical user interface. You can lay out and create your applications visually in a filmstrip-like work area. Then cut, copy, paste, drag and drop text images, audio, video, animation and special effects to your everyday business letters, reports, spreadsheets, presentations and training materials. Builder/2 comes with an OS/2 runtime for easy distribution of your multimedia communications.

Ultimedia Perfect Image/2 enables anyone who is not a graphic artist to capture and enhance pictures quickly and easily. Work with full, partial and irregularly-shaped images, blending and smoothing sharp edges after cut and paste. Drag and drop images from a variety of sources. Flip, rotate and resize images for more effective business

communication. You can print your professional-looking results with OS/2 Presentation Manager. Or, you can also put them in Ultimedia Workplace/2 for easy retrieval at another time. And, of course, you can drag and drop enhanced images into Ultimedia Builder/2.

Ultimedia Workplace/2 brings an easy way to visually organize and manage image, audio and video files and objects. You see and work with miniature pictures, called "thumbnails" representing the contents of your multimedia files. You can define text descriptions for each thumbnail and then do searches against these definitions. In addition, Ultimedia Workplace/2 can access, display, associate and join information from these popular relational databases: dBase IV™, Oracle™, OS/2 Database Manager™ and DB2/2. Drag and drop any thumbnail directly into Builder/2. Or, drag and drop images into Perfect Image/2 first to enhance and retouch them.

For easy learning, interactive multimedia tutorials created with Ultimedia Builder are available for each product. Demonstration or step-by-step practice sessions offer you a choice of learning modes. For more information about products in the Ultimedia Tools Series, call 1 800 426-2255.

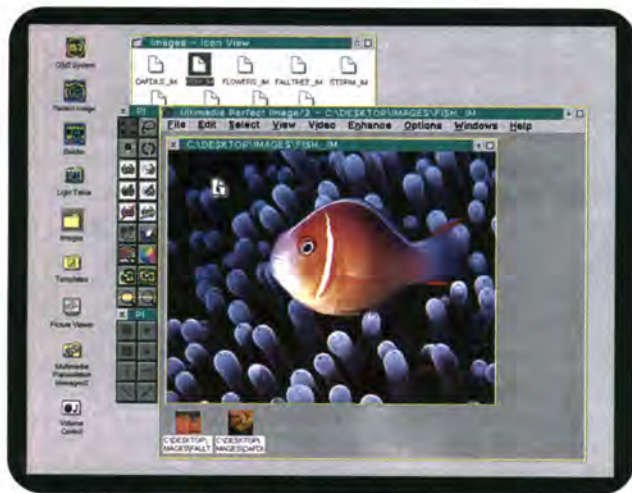
Storyboard Live! 2.0



Presentations come to life!



Mix sound, graphics, text, still photography, painting and music for powerful desktop presentations with Storyboard™ Live! 2.0. This on-screen audiovisual presentation program is a creative and cost-effective alternative to traditional presentations, such as slide shows, flip charts or overhead transparencies. Storyboard Live! 2.0 produces desktop presentations and demonstrations with sound and video which can be distributed to computers without an audio or video adapter card and with low memory requirements. The versatile replay option allows you to make standalone presentations from diskette giving you an easy way to mass distribute your information. Storyboard Live! 2.0 runs on any IBM PC/PS/2 or 100 percent IBM compatible computers under DOS 3.3 or above.



Different tools can work together in Ultimedia's open architecture.

30-day money-back guarantee!



It's about time.

Now you can easily coordinate and schedule your work-day activities with IBM's Time and Place/2 program package. This OS/2 2.0 and Microsoft®

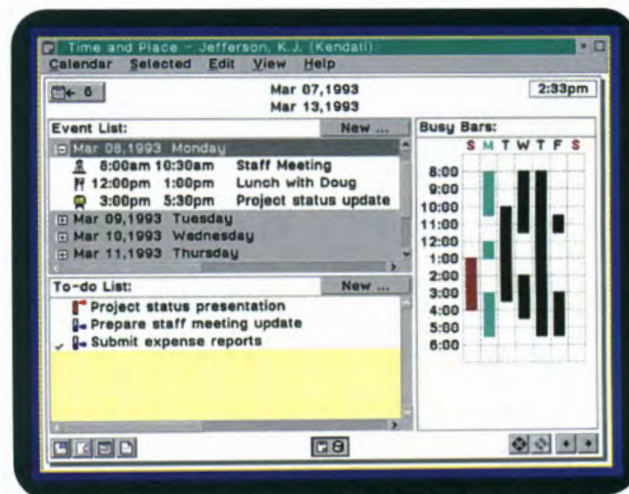
Windows 3.1 LAN-based time management program gives you control over events, "to-do's" and memos, allowing you to schedule meetings when operating in a LAN environment. The user interface is patterned after common day/week/month desktop calendars. These different views can be printed in a variety of text or graphical forms. Take a look at what Time and Place/2 Version 1.0 can do for your group:

- Schedules events for one or more members of a group.
- Searches free time across a group.
- Gives time zone support across different time zones.
- Assigns to-do items to one or more group members.
- Replicates events across time periods or multiple days.
- Controls access to your calendar events and to-do's with a security authorization.

Time and Place/2 also allows you to customize daily, weekly, monthly and list views. It will prioritize your to-do's for each day and includes a pop-up monthly calendar for navigation or reference. It even has alarms with tunes for OS/2 or beeps for Windows, as well as a "snooze" option. With an extensive online help panel Time and Place/2 is easy for you to use any time!

Ordering Information

Program No.		OTC
5871-AAA	IBM Ultimea Tools Series	
F/C 2932	Perfect Image/2	\$175
F/C 3007	Workplace/2	\$345
F/C 3008	Builder/2	\$345
5871-BBB	Storyboard Live! Version 2.0	\$395
5871-AAA		
F/C 3447	Time and Place/2 (1 client and 1 server)	\$595
5872-AAA		
F/C 3183	Time and Place/2 Additional License Server	\$550
5877-AAA		
F/C 3185	Time and Place/2 Distributed Feature-Client	\$55



Time and Place/2 schedules events for one or more members of a group and searches free time across a group.

"I can easily coordinate meetings within my work group — or corporate-wide — thanks to Time and Place/2. I just enter when I want to meet and the program searches for a free time slot. The use of Time and Place/2 is part of our corporate culture."

Sherry Houle
Allianz Life Insurance Co.

More Options.

IBM Continuous Speech Series

Voice control is yours.

Imagine how much easier it would be if you could simply tell your applications what to do instead of having to use a keyboard. In fact, there are many business professionals whose hands and eyes are occupied and who could be more productive by speaking to their computer. For example:

- Police – "Check license Alpha Bravo Charlie 123"
- Brokers – "Buy 1,000 shares xyz at market"
- Graphic designers – "Rotate 90 degrees."

Your end users can enjoy the natural ease of speaking to their computers and get faster access to data and applications as a bonus. For example, your applications will be able to:

- Accept continuous, speaker-independent speech input
- Use a 1,000-word active vocabulary, with instantaneous context switching
- Accommodate a wide variety of microphones.

As a result, you can interact with your applications easily, naturally and more productively and keep your hands and eyes free for more important tasks.

Whether your applications operate under OS/2 or AIX and are in a standalone or client/server environment, you can develop automated speech interfaces (API) for them using IBM's Continuous Speech Series.

Join the special program for developers – call today! 1 800 627-8363

IBM Speech Server Series

Typing with talk.

Using an active vocabulary of over 20,000 words and a sophisticated language model, the IBM Speech Server Series actually analyzes your spoken words and then enters them into your computer application. This highly accurate speech recognition system lets you create complicated business and technical text quickly and accurately — simply by speaking to your workstation. No keyboarding is necessary!

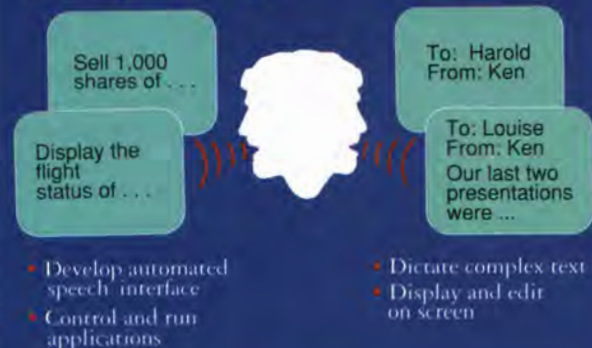
For example, you can do:

- Letters and reports
- Office correspondence
- Electronic mail
- Technical documents.

Because the IBM Speech Server Series uses a sophisticated statistical language model and a high-performance speech accelerator card on a RISC System/6000 workstation, it is

Continuous Speech Developers Program

Speech Server Series



IBM Speech Recognition Family: Your voice is the master.

highly accurate. In many instances, it can correctly choose between like-sounding words, such as "our" and "hour."

The IBM Speech Server Series supports user workstations running either OS/2 or AIX on a LAN with a RISC System/6000 server. A single server can handle one to eight concurrent sessions. The system can also operate as a standalone AIX RISC System/6000 workstation.

IBM VoiceType

Powerful, new voice tools.

The newest members of the IBM Speech Recognition Family, VoiceType 2 and

VoiceType Control for Windows help you dictate memos or letters or drive your applications faster and easier, simply by speaking to your computer. For your DOS applications, VoiceType 2 provides dictation and data entry into your existing applications, such as word processing, databases or spreadsheets, simply by using your voice. It automatically adapts to your unique voice pattern and allows for accents and other individual speech characteristics. VoiceType 2 is ready to use with many of your favorite software products such as Quicken™, WordPerfect 5.1™, dBase™ and more!

If you're equipped with a 386SX processor or above, VoiceType Control for Windows gives you the power to manipulate the Windows 3.1 environment and existing Windows 3.1 applications with a simple voice command. Because this program is speaker independent, even the novice can begin using it immediately!

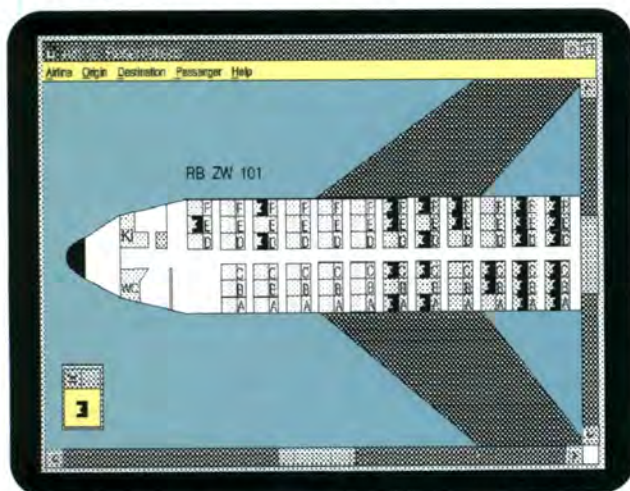
Graphics Interface Kit/2

Manipulate your data graphically.

Would you like to produce and manipulate graphical representations of your data without writing Presentation Manager code? You can do this easily by using Graphics Interface Kit/2 (GIK/2). You can use GIK/2 both to draw the objects that represent data and to test the interface that contains these objects. Without writing a single line of code, you can add, delete, move, and size objects, and open, save, print and lay out diagrams that you build with these objects. When you want to write customizing code that connects the objects with your data, GIK/2 automatically creates the files that your program needs.

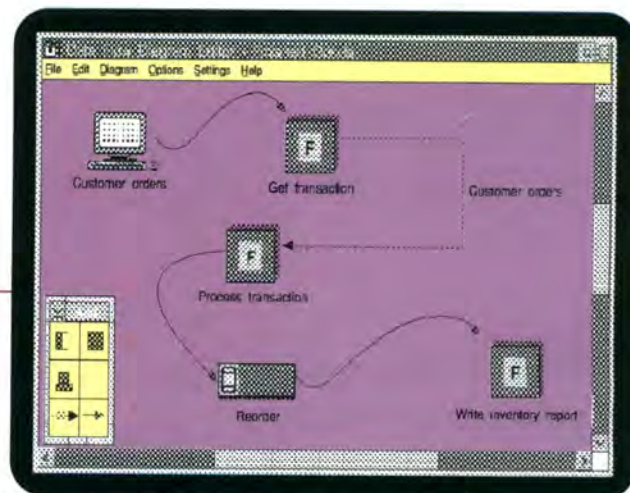
Graphical interfaces can be used in many domains to display and manipulate data. Examples include organization charts, parts assembly hierarchies, communication network diagrams, data flow diagrams and entity-relationship diagrams. As the examples show, the creation of diagram editors is an important use of GIK/2. But GIK/2 can be used for any type of application, including database and transaction systems, that need graphical front-ends.

- Build intelligent graphical interfaces for OS/2 2.0.
- Draw objects that represent your data.
- Automatically generate C code that links the objects with your application.
- Save 10,000 to 20,000 lines of code per application.
- Prototype an interface in one or two hours.



In Graphics Interface Kit/2, symbols on the screen are linked to the application data that they represent.

Quantity discounts available!



The creation of diagram editors is an important use of Graphics Interface Kit/2.

Translation-Manager/2

It's all in the translation.

Do you work for a multi-national corporation? Do you market products or applications in international markets? Do you need support to translate your documents today? If the answers to these questions are yes, TranslationManager/2 is for you. This productivity tool is specifically designed to assist the professional or occasional translator. Textual information is imported from 19 different languages for translation into any language OS/2 supports. Its overall objective is to use the expertise of the bilingual professional for providing high quality translations as well as to support streamlining and management of the translation process. TranslationManager/2 assists you through the entire translation cycle starting with terminology management, through translation of documentation and program integrated text, while administering your translation projects.

- Integrates previously created translations and dictionaries.
- Translations obtained through the use of TranslationManager/2 are easily reused through the Translation Memory component.
- Increases quality and consistency with a variety of convenient and powerful translation, dictionary and linguistic support components.

Ordering Information

Program No.		OTC
(Developers' Program)		
Continuous Speech Series (Single user)	Now \$299	\$699
Continuous Speech Series (Multi user)		\$3,995
AIX Speech Server/6000		
5777-WCQ Base (All models)		\$5,000
5777-WCQ Starter Set (All models)		\$1,950
5777-WCP Speech Client/2 (All models)		\$695
5777-WCN Speech Client/6000 (All models)		\$695
AIX Speech - Single User		
5765-151 Base (All models)		\$1,920
5765-151 Starter Set (All models)		\$575
5871-AAA		
F/C 4154 IBM VoiceType 2		\$2,195
F/C 5596 IBM VoiceType Control for Windows		\$129
5621-432 Graphics Interface Kit/2		\$2,850
5621-327 TranslationManager/2		\$5,250
5622-012 Graphics Interface Runtime/2		\$135

More Access.



Move up to multiple sessions.

If your users need multiple concurrent host sessions — or multiple DOS sessions with native Windows support — here's your answer. IBM Personal Communications/3270 Version 2.0 provides advanced host communications and gateway services for PS/2s and PCs. It offers both a DOS mode with enhanced workstation function, a Windows mode and a gateway mode all in a single package.

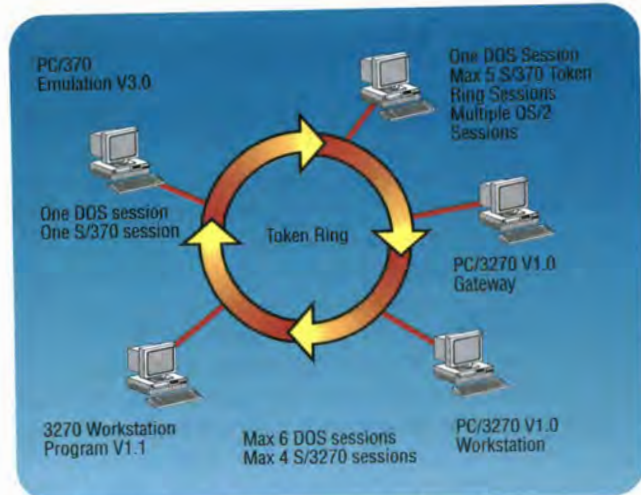
- Host connectivity via SDLC, Token Ring, Ethernet, 3270 Distributed Function Terminal (DFT) and Control Unit Terminal (CUT) and asynchronous connections.
- Provides enhanced fonts for easy-to-read screens.
- Facilitates the management of large installed bases via a quick installation option.
- Allows users to move from DOS to Windows or gateway mode without having to buy an additional package.



Emulate ASCII on your PC.

If you're looking for a way for your PS/2 workstations to concurrently emulate multiple ASCII terminals, IBM Multi-Terminal ASCII Emulator/2 is the answer. It allows you to centrally emulate multiple asynchronous terminals on a single workstation — alleviating the need for unique consoles for devices in the system and consolidating their monitoring to a single workstation. You can centralize access to the ASCII operator terminals because of this program's key support of LU6.2 connections.

- Enhances systems management by providing central site access to non-SNA devices and management systems within an SNA network.
- Protects your investment by expanding central site support into the non-SNA portions of the network.
- Enhances network support personnel productivity by improving information via direct access to non-SNA portions of the network.
- Enables growth and migration in a heterogeneous network by allowing management access as the initial step to total management integration.



PC/3270 provides advanced host communications and gateway services for PS/2s and PCs.



Protect your investment.

Networking Services/DOS lets you integrate existing DOS and Windows workstations into your computing network. From small workstations to the largest mainframe system, Networking Services/DOS allows DOS and Windows workstations to participate in networks with both IBM and non-IBM systems.

That's not all. Networking Services/DOS lets you bring your DOS workstations into a distributed computing environment. This type of distributed computing combines the control, speed and storage capacity of large systems with the usability and flexibility of inexpensive DOS workstations.

- Provides a low-memory Advanced Program-to-Program Communication solution for DOS and Microsoft Windows environments.
- Allows you to effectively develop and run distributed applications for the DOS and Windows environment, since Networking Services/DOS can run in as little as 90KB of conventional memory, plus the required 50 to 60KB of memory when communication applications are run.
- Uses CPI-C, a consistent programming interface for distributed applications throughout the networks and aids portability of applications and programming skills.
- Provides easy integration into dynamic APPN networks, as well as existing SNA subarea networks.

NetWare
from IBM



Connectivity that keeps growing.

Built especially for today's powerful i386™ and i486™ processors, NetWare® from IBM allows you to connect previously incompatible desktop platforms —DOS, Windows, Macintosh, OS/2 and UNIX — into a single system. As a result, users can easily share applications, files and data plus peripherals such as printers, plotters and modems.

The newest addition to the NetWare family is NetWare 4.0 from IBM. Novell's newest advanced network operating system turns a multiserver NetWare environment into a single integrated system. Building on the familiar NetWare architecture, NetWare 4.0 allows you to manage your network easier and gives you better access to network resources. With NetWare 4.0 you'll find all the power of NetWare v3.11 plus a whole lot more! Take a look at some of our new features.

- NetWare Directory Services allows a multiserver network to be viewed as a single information system.
- Includes a single, integrated interface for all network administration.
- Secures network against any unauthorized intrusion.
- Restricts user access to network resources.
- Supports all popular client operating systems, including DOS, OS/2, Windows, UNIX and Macintosh.
- Integrates with RS/6000, AS/400 and ES/9000.™
- Monitors all network activity.

And, with NetWare 4.0 for OS/2 you get the premier client server application solution that fully uses OS/2's multi-tasking by allowing NetWare 4.0 to run on OS/2 as a non-dedicated application.

IBM
Workstation
One



Easy access to your host.

Workstation One software enables a Macintosh, DOS Windows, OS/2 or AIX user to work smoothly with network host computers. With a click on an icon, Workstation One's many text and graphical emulators can transparently reach applications on DEC and IBM hosts.



Workstation One's many text and graphical emulators can transparently reach applications on DEC and IBM hosts.

TCP/IP-based, WNetWareorkstation One provides several LAN functions including file sharing. The backup and restore function lets the user schedule unattended file backups to the LAN server. File Transfer easily and graphically permits files to be sent from the host to the workstation, or vice versa.

In short, Workstation One lets users choose their preferred workstation environment (from OS/2 to Mac to Windows to AIX) and interact with remote host applications in multiple, simultaneously active sessions. It empowers a department sharing the LAN server to work more effectively and efficiently as a team.

Leverage your assets: mainframes and desktop . . . Workstation One is a power tool for the 1990s.

Multipacks available!

5-pack \$3,500

10-pack \$6,400 (Windows & Mac only.)

Ordering Information

Program No.		OTC
5871-AAA		
F/C 3437	IBM Personal Communications/3270 V3.0	\$495
5871-AAA		
F/C 2483	Networking Services/DOS	\$195
5875-XXX		
F/C 1595	IBM Multi-Terminal ASCII Emulator/2	\$300
5871-AAA		
F/C 5313	NetWare 4.0 from IBM, 10 user (CD ROM)	\$3,195
F/C 5314	NetWare 4.0 from IBM, 25 user (CD ROM)	\$4,695
5696-282	Workstation One/2 (for OS/2)	\$895
5696-283	Workstation One for Windows	\$895
5696-284	Workstation One/6000 (for AIX)	\$895
5696-285	Workstation One for Macintosh	\$895

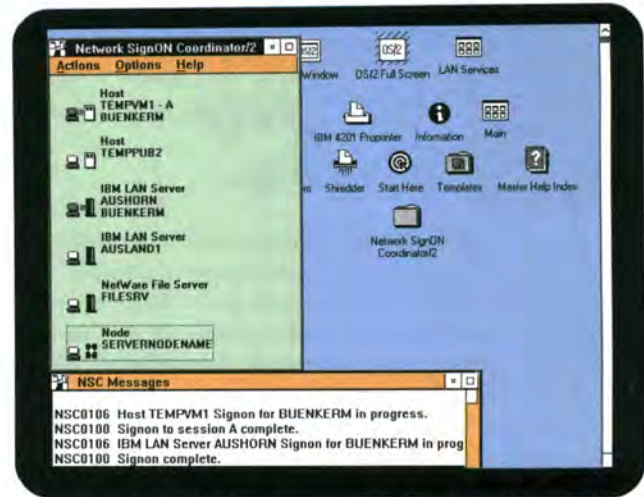
More Control.

IBM Network SignON Coordinator/2

Sign-up for SignON.

IBM Network SignON Coordinator/2 Version 1.1 gives you a simplified way to perform single sign on and password coordination on multiple LAN and host accounts simultaneously. Improving both productivity and the overall usability of your working environment, Network SignON Coordinator/2 will dramatically decrease the number of different systems with which you must manually interact in order to log on or change passwords.

Using the graphical (OS/2), full-screen (DOS) or command line interface, you can automate your sign ons and password changes on: OS/2 LAN servers; Novell NetWare servers; locally-attached hosts and those connected to a remote gateway; OS/2 UPM accounts and accounts on remote workstations (i.e. OS/2 Database Manager Servers).



SignON Coordinator/2 gives you a simplified way to perform single sign on and password coordination.

LAN NetView Start

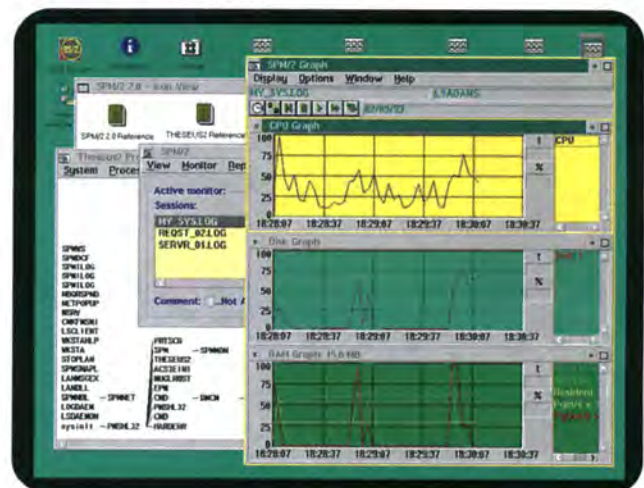
Manage your network — it's central.

If your network is critical to your business, chances are it can benefit from centralized NetView® management. LAN NetView Start Version 1.1 is a tool that gives you centralized management of OS/2 LAN software resources in an environment implementing IBM configuration, installation and distribution (CID) conventions for remote (across-the-LAN) installation in an OS/2 LAN. The Start program runs on Version 2 of IBM OS/2 and provides an object-oriented, graphical Presentation Manager interface. This allows the administrator to plan and manage the configuration of network workstations within the intuitive context of a graphical representation of the network.

System Performance Monitor/2

This performance deserves an ovation.

Whether you're an administrator, analyst or developer, it's important for you to be able to identify and solve performance problems quickly and accurately. System Performance Monitor/2 (SPM/2) Version 2.0 helps you do just that. SPM/2 will collect, record, graph and report the performance data for OS/2 Version 2.0 critical system resources — down to process and thread level — on both IBM and non-IBM PC hardware.



SPM/2 collects, records, graphs and reports the performance data for OS/2 V.2 critical system resources.

IBM C Developer's WorkSet/2



The right tool for your job.

The OS/2 2.0 Application Development Tools can help to make your programmers more efficient, more precise and more productive. These tools work well individually or together to provide a complete 32-bit C-language environment so you can develop a full range of applications — from retail to mission-critical. For the greatest convenience choose a packaged solution. The IBM C Developer's WorkSet/2 kit bundles the Developer's Toolkit and WorkFrame/2 with the C Set/2 — providing a total application development package for OS/2.

- Takes advantage of the power of 80386- and 80486-based system units through state-of-the-art code optimization.
- The OS/2 2.0 Developer's Toolkit provides a comprehensive set of language-independent tools and code samples fundamental to building advanced OS/2 2.0 applications.
- IBM OS/2 2.0 Technical Library supplements the Toolkit with programming guides and other printed references.
- IBM WorkFrame/2 makes application development easier by organizing projects and allowing you to integrate your preferred tools.
- IBM C Set/2 includes a 32-bit SAA C Compiler with its runtime libraries and a fully integrated, source level Presentation Manager debugger.

IBM Common User Access Controls Library/2



Let us deliver your GUI baggage.

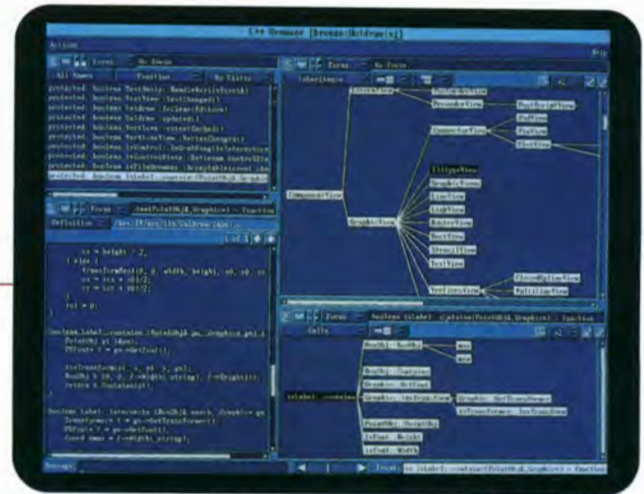
Only \$149!

If you're moving up to more powerful OS/2 from Windows, now you can have the same user interfaces for both new and existing applications with CUA Controls Library/2 (CCL/2).

This 16-bit program quickly generates familiar OS/2 2.0 GUIs for applications in OS/2 1.3 and Windows 3.0 and 3.1. It provides consistent interfaces across platforms, so your end users will quickly learn new applications.

CCL/2 contains the code for seven key GUI screens. It's code you won't have to write. It's also code you can reuse. Over and over again.

What's more, CCL/2 will save you money because there are no runtime charges for redistribution of DLLs.



C Set++ for OS/2 2.0 provides the essential components to develop object-oriented programs.

IBM C Set++ for OS/2 2.0



More control. Easier implementation.

IBM C Set++ for OS/2 2.0 provides the essential components to develop object-oriented programs. This convenient single package contains:

- IBM C/C++ compiler that generates 32-bit code for IBM OS/2 2.0 and higher, and includes: Standard Class Library, User Interface Class Library, and Collection Class Library
- The fully interactive, full function, source level IBM C/C++ Debugger
- The IBM C++ browser
- The IBM C/C++ execution trace analyzer.

C Set++ increases your productivity and ensures that your previous or current investments in product development tools are well protected.

Ordering Information

Program No.		OTC
5871-AAA	IBM Network SignON Coordinator/2	\$45
5871-AAA	LAN NetView Start V1.1	
F/C 5025	3.5"	\$595
F/C 5047	5.25"	\$595
5873-AAA	LAN NetView Start Upgrade package	
F/C 5058	3.5"	\$79
F/C 5057	5.25"	\$79
5871-AAA	System Performance Monitor/2 2.0	
F/C 3415	3.5"	\$495
F/C 3416	5.25"	\$495
5871-AAA	OS/2 2.0 Tools for Application Development	
F/C 2398	C Developer's WorkSet/2	\$895
F/C 2394	C Set/2 Compiler and Libraries	\$696
F/C 2396	OS/2 2.0 Developer's Workbench	\$199
F/C 2390	OS/2 2.0 Developer's Toolkit	\$119
F/C 2392	IBM WorkFrame/2	\$90
5871-AAA		Now
F/C 2463	Common User Access Controls Library/2	\$149 \$624
5871-AAA	IBM C Set++ for OS/2 2.0	
F/C 3206	3.5"	\$175*
F/C 5346	5.25"	\$175*
F/C 5347	CD-ROM	\$149*

* Promotion prices good through August 31, 1993.

More Energy.



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Easel Corporation's EASEL Workbench® provides a robust set of tools for developing client/server applications. Easel customers are achieving success by using EASEL Workbench to rapidly prototype and deliver a wide variety of sophisticated business solutions for OS/2, Windows and DOS. A variety of client/server architectures are supported by EASEL Workbench applications, including transaction processing and DSS applications that access local and enterprise data via SQL or other methods.

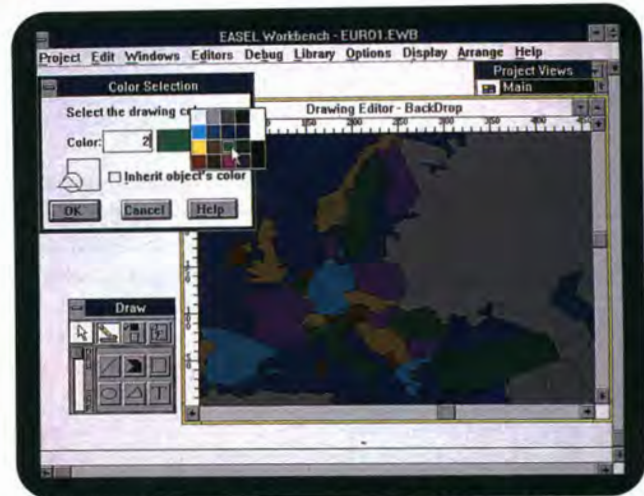
- Lets developers build SAA/CUA™ applications.
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- Leverages power of OS/2 development platform.
- Compiles and executes for OS/2, Windows and DOS environments.
- Provides incremental compiler, source level debugger and trace facilities and organization tools to manage development environment.



This workbench comes with a toolset.

Micro Focus® COBOL™ Workbench is an integrated collection of programming productivity tools that complement the Micro Focus COBOL compiler. It provides a highly integrated and responsive development environment that can dramatically improve programmer productivity. The function and design of the COBOL Workbench environment allows you to quickly address your application backlog, produce efficient and higher quality applications and effectively maintain COBOL applications on a single PS/2. These applications can be targeted to a wide range of host and PC environments. Key functionality in the Micro Focus Workbench includes:

- Full-screen text editor
- Mainframe COBOL Compatibility (IBM OSVS, VSC2, DOSVS, COBOL 370)
- EBCDIC data file support
- Source Code Level debugging with ANIMATOR.



Enhanced graphical applications are yours with EASEL Workbench.



Put new life in old programs.

IS professionals, empower yourselves with an integrated set of tools that effectively enhances, maintains and redevelops aging applications. Using VIASOFT®, Inc.'s Existing Systems Workbench, you can gain control of existing systems; programmers can understand and improve aging, complex systems; and analysts can extract business rules from existing applications and reuse them in new systems. The OS/2 workstation tools mentioned below work in conjunction with their respective host products.

- Using VIA/Insight® 2 and VIA/SmartDOC2™, application programmers can significantly decrease the amount of time they spend understanding the legacy code of the business enterprise.
- Using VIA/Renaissance2™, programmers can turn large programs into smaller, easier to manage and understand module programs.
- Using VIA/ReCap2™, programmers can quickly measure the complexity of an application, including Function Point measurement, each time the application is changed.

**Parts
Workbench
Version 2.0
for OS/2**

Power parts.



Parts Workbench Version 2.0 for OS/2 from DIGITALK™ offers the corporate developer rapid development from prefabricated SW components, and:

- Integration for objects, SQL, COBOL, C, CICS™, GHI as parts
- 100% pure objects based on Smalltalk/V
- Team development and version control available
- Starter kit comes with training and Smalltalk products.

This exciting development tool has won the Buyer's Assurance award and the Top Visual Assembly Tool award from *InfoWorld* and the Top OS/2 Developer Tool from *PCWeek*.

**DIGITALK
Smalltalk/V
Version 2.0 to
for OS/2**

Fast talk with Smalltalk/V.



DIGITALK's award-winning Smalltalk/V® Version 2.0 for OS/2 provides a complete

development environment that lets you build applications up to ten times faster than traditional programming methods. Key features:

- Expansive set of class libraries for objects
- 100% pure objects
- Complete development environment includes browsers and debuggers
- Team development and version control available.

Ordering Information

Program No.	OTC
VIASOFT Existing Systems Workbench	
5758-VSH VIA/Insight2	\$2,500
5758-VSJ VIA/Renaissance2	\$3,000
5758-VSL VIA/Recap2	\$1,500
5758-VSN VIA/SmartDoc2	\$1,000
EASEL Workbench Tools	
5758-EC0 EASEL/2 Workbench with Production Compiler	\$11,900
5758-EC1 EASEL/2 Workbench Migration from IBM EASEL	\$2,800
5758-EC4 Additional EASEL/2 Production Compiler	\$5,900
5758-EC7 EASEL/2 Runtime System	Call
Micro Focus COBOL Workbench	
5758-MFF Micro Focus COBOL	\$750
5758-MFA COBOL Workbench	\$2,500
5758-DK4 Parts Workbench Version 2.0 for OS/2	\$995
5758-DK1 Smalltalk/V Version 2.0 for OS/2	\$995

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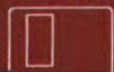
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APL2
for the
IBM PC



A new symbol for productivity.

APL2™ is an extremely effective programming language in a wide range of uses from interactive computing to "what if" modeling, exploratory programming and application program design. APL2/PC provides high compatibility with the 370/390 mainframe and RISC System/6000 APL2 products.

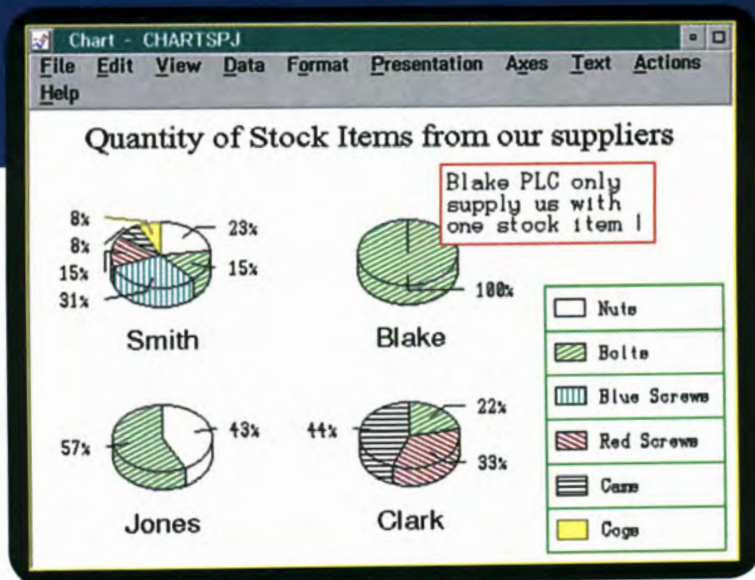
APL2/PC permits transparent import/export of programs and data via the IN and OUT commands, and allows for a high degree of connectivity with APL2 on the host and RISC platforms.

- Two interpreters are included: 16-bit and 32-bit.
- Workspace sizes of over 30MB are supported on 386, 386SX and 486 machines.
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- APL2 screen and printer fonts are included.
- APL2 Application Packaging facility allows users to run previously developed APL2 applications as a standalone executable module.
- APL2/PC provides many of the Auxiliary Processors available with APL2/6000™ and/or host APL2 products.
- Facilities for host-system and LAN communications included.

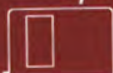
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Power tools that give you more.



IBM Personal
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Make the most of your data asset.

IBM Personal Application System, developed by IBM's Programming Systems Division, provides business professionals with a combination of powerful facilities to gather, analyze and present the information needed to make better business decisions. Comprehensive access is provided to enterprise data residing on a variety of databases and platforms.

Personal Application System consists of a "base" product operating in either OS/2 or DOS/Windows and gives you data access, query, reporting and charting functions, plus task automation features.

Look for these optional Personal AS products: Statistics, Business Planning, Development, and Project Management (OS/2 only).

Ordering Information

Program No.			OTC
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F/C 0029	Development/2		\$848
F/C 0039	Statistics/2		\$485
F/C 0060	Business Planning/2		\$485
F/C 0062	Project Management/2		\$848
F/C 2530	Personal AS/DOS for Windows	Now \$381.50	\$765
F/C 2531	Development for Windows		\$848
F/C 2532	Statistics for Windows		\$485
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